Amendment and Response under 37 C.F.R. 1.116
Applicant: Thane M. Larson et al.
Serial No.: 09/924,024
Filed: August 7, 2001
Docket No.: 10012574-1
Title: SYSTEM AND METHOD FOR POWER MANAGEMENT IN A SERVER SYSTEM

IN THE CLAIMS

Please amend claims 1-9 and 15-19 as follows:

1.(Currently Amended)   A server ~~system~~ unit comprising:

a plurality of subsystems each including an associated memory for storing power usage information, the plurality of subsystems including at least one host processor card and at least one mass storage device;

a power supply unit coupled to the plurality of subsystems for providing power to the plurality of subsystems; and

a server management card coupled to the plurality of subsystems, the server management card configured to retrieve the power usage information from the memory of each subsystem, the server management card configured to calculate the total power usage of the plurality of subsystems based on the retrieved power usage information.

2.(Currently Amended)   The server ~~system~~ unit of claim 1, wherein the power supply unit includes an associated memory for storing power capacity information representing the power capacity of the power supply unit.

3.(Currently Amended)   The server ~~system~~ unit of claim 2, wherein the server management card is coupled to the power supply unit and is configured to retrieve the power capacity information from the memory associated with the power supply unit.

4.(Currently Amended)   The server ~~system~~ unit of claim 3, wherein the server management card is configured to compare the retrieved power capacity information to the calculated total power usage of the plurality of subsystems.

5.(Currently Amended)   The server ~~system~~ unit of claim 4, wherein the server management card is configured to control the power state of the plurality of subsystems based on the comparison of the power capacity information to the total power usage.

2

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6.(Currently Amended)   The server ~~system~~ unit of claim 4, wherein the server management card does not allow an inserted subsystem to be powered up if the calculated total power usage would exceed the power capacity of the power supply unit.

7.(Currently Amended)   The server ~~system~~ unit of claim 1, wherein the memory associated with each subsystem is an EEPROM.

8.(Currently Amended)   The server ~~system~~ unit of claim 1, wherein the at least one mass storage device comprises at least one hard disk card, and wherein the plurality of subsystems include at least one fan.

9.(Currently Amended)   A method of monitoring power usage in a server ~~system~~ with a single housing, the server ~~system~~ including a plurality of subsystems and a power supply for powering the plurality of subsystems, the plurality of subsystems including at least one host processor card and at least one mass storage device, the method comprising:

    providing each of the plurality of subsystems with an associated memory;

    storing power usage information in the memories associated with the plurality of subsystems, the power usage information stored in each memory representing the power usage of the subsystem associated with the memory;

    retrieving the power usage information from the memory associated with each subsystem; and

    determining the total power usage of the plurality of subsystems based on the retrieved power usage information.

10.(Original) The method of claim 9, and further comprising:

    providing the power supply with an associated memory; and

    storing power capacity information in the memory associated with the power supply, the power capacity information representing the power capacity of the power supply.

11.(Original) The method of claim 10, and further comprising:

3

retrieving the power capacity information from the memory associated with the power supply; and

comparing the retrieved power capacity information to the total power usage of the plurality of subsystems.

12.(Original) The method of claim 11, and further comprising:

controlling the power state of the plurality of subsystems based on the comparison of the power capacity information to the total power usage.

13.(Previously Presented)   The method of claim 11, and further comprising:

preventing an inserted subsystem from being powered up if the total power usage would exceed the power capacity of the power supply.

14.(Previously Presented)   The method of claim 9, wherein the memory associated with each subsystem is an EEPROM.

15.(Currently Amended)   A server ~~system~~ unit comprising:

a plurality of removable cards, each card including an associated memory for storing power usage information, the plurality of cards including at least one host processor card and at least one hard disk card;

a power supply unit coupled to the plurality of cards for providing power to the plurality of cards, the power supply unit including an associated memory for storing power capacity information;

a server management card coupled to the plurality of cards and the power supply unit, the server management card configured to control a power state of the plurality of cards based on the power usage information and the power capacity information.

16.(Currently Amended)   The server ~~system~~ unit of claim 15, wherein the server management card is configured to calculate the total power usage of the plurality of removable cards based on the stored power usage information.

4

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17.(Currently Amended)   The server ~~system~~ unit of claim 16, wherein the server
management card is configured to compare the stored power capacity information to the
calculated total power usage of the plurality of removable cards.

18.(Currently Amended)   The server ~~system~~ unit of claim 17, wherein the server
management card prevents an inserted card from being powered up if the calculated total
power usage would exceed the power capacity of the power supply unit.

19.(Currently Amended)   The server ~~system~~ unit of claim 15, wherein the memories
associated with the cards and the power supply unit are EEPROMs.

5